



# **NORTH COAST INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

**PROPOSITION 84 IMPLEMENTATION GRANT PROPOSAL,  
ROUND 1**

**ATTACHMENT 10:  
COST AND BENEFITS SUMMARY**

**Integrated Regional Water Management Program  
Applicant: Humboldt County**

## **Attachment 10, Economic Analysis: Proposal Project Cost and Benefit Summary**

The present value of the costs for all projects proposed for the North Coast region totals \$12,219,228 in 2009 dollars, discounted at a rate of 6 percent per year. The present value of the quantifiable water-supply-related benefits for all projects totals \$2,855,930 in 2009 dollars, discounted at a rate of 6 percent per year. The present value of the quantifiable water-quality and other expected benefits for all projects totals \$21,889,074 in 2009 dollars, discounted at a rate of 6 percent per year. This results in net benefits of \$12,525,776. The true net benefits would be greater than this, insofar as the projects also would generate extensive benefits for which we could not estimate monetary values.

Table 20 presents a summary of the proposed project's quantifiable costs and benefits.

<b>Table 20 - Proposal Project Costs and Benefits Summary</b> Proposal: North Coast Integrated Water Management Plan Agency: West Coast Watershed							
Project	Agency	Total Present Value Project Costs (1)	Total Present Value Project Benefits				B/C Ratio
			Water Supply (2)	Flood Damage Reduction (3)	Other (4)	Total	
(a)	(b)	(c)	(d)	(e)	(f)	(g) (d) + (e) + (f)	(h) (g) / (c)
20-402 Ackerman Creek Habitat Restoration	Pinoleville Pomo Nation	\$262,747	\$1,582	\$0	\$18,964	\$20,546	0.1
20-345 Bodega Bay Water Resources Management Project	Gold Ridge Resource Conservation District	\$1,046,088	\$593,393	\$0	\$83,424	\$676,817	0.6
20-292 Lower Russian River Water Quality Improvement Project	Sotoyome Resource Conservation District	\$357,360	\$0	\$0	\$86,636	\$86,636	0.2
20-364 Mendocino Jumpstart Integrated Water Plan	Mendocino County Water Agency	\$406,656	\$6,009	\$0	\$20,233	\$26,242	0.1
20-374-6 Nissah-Kah Creek Fish Passage Removal	Hopland Band of Pomo Indians	\$948,702	\$0	\$0	\$0	\$0	0.0
20-393 Russian River Arundo donax removal and riparian enhancement program	Sotoyome Resource Conservation District	\$255,100	\$491,540	\$0	\$437,263	\$928,803	3.6
20-396 Copeland Creek Watershed Detention/Recharge, Habitat Restoration, and Steelhead Refugia Project	Sonoma County Water Agency	\$2,104,194	\$0	\$0	\$115,368	\$115,368	0.1
20-289 Camp Creek Habitat Protection-Road Decommissioning Implementation Project	Karuk Tribe	\$341,625	\$0	\$0	\$88,194	\$88,194	0.3
20-311 Indian Creek Sewer Pipeline Crossing	Happy Camp Sanitary District	\$891,165	\$0	\$0	\$269,352	\$269,352	0.3
20-306 Water Treatment System Upgrade	Happy Camp Community Services District	\$569,004	\$18,875	\$0	\$1,975	\$20,850	0.0
20-408 Del Norte Agricultural Enhancement Program	Del Norte Resource Conservation District	\$454,541	\$0	\$0	\$81,130	\$81,130	0.2
20-352 Gualala River Sediment Reduction Program	Gualala River Watershed Council	\$807,014	\$0	\$0	\$11,991,593	\$11,991,593	14.9
20-444 Mattole Integrated Watershed Management Initiative	Mattole Restoration Council	\$262,811	\$72,355	\$0	\$6,386,629	\$6,458,984	24.6
20-358 Mendocino Headwaters Integrated Water Plan	Mendocino County RCD	\$628,941	\$0	\$0	\$47,714	\$47,714	0.1
20-355 Real Time Weather Data for Irrigation Water Management	Del Norte Resource Conservation District	\$19,005	\$5,683	\$0	\$2,888	\$8,571	0.5
20-441 Waterfall Gulch Transmission Main	City of Fort Bragg	\$708,771	\$171,908	\$0	\$153,528	\$325,436	0.5
20-362 Blue Lake Fieldbrook Pipeline Support Retrofit	Humboldt Bay Municipal Water District	\$1,622,146	\$1,492,638	\$0	\$1,345,786	\$2,838,424	1.7
20-405 Sustainable Forests, Clean Water and Carbon Sequestration Demonstration Project	Redwood Forest Foundation, Inc.	\$305,159	\$1,947	\$0	\$608,547	\$610,494	2.0
20-357 Hwy 96 Stormceptor	Willow Creek Community Services District	\$228,199	\$0	\$0	\$149,850	\$149,850	0.657
<b>TOTAL</b>		<b>\$12,219,228</b>	<b>\$2,855,930</b>	<b>\$0</b>	<b>\$21,889,074</b>	<b>\$24,745,004</b>	<b>2.0</b>

(1) From Exhibit C, Table 11, column (i). Or from Exhibit #, Table 17, column (i). If project is a multi-purpose project, avoid double-counting costs.

(2) From Exhibit C, Table 15, column (d)

(3) From Exhibit E, Table 19, row (e)

(4) From Exhibit D, Table 16, column (j)